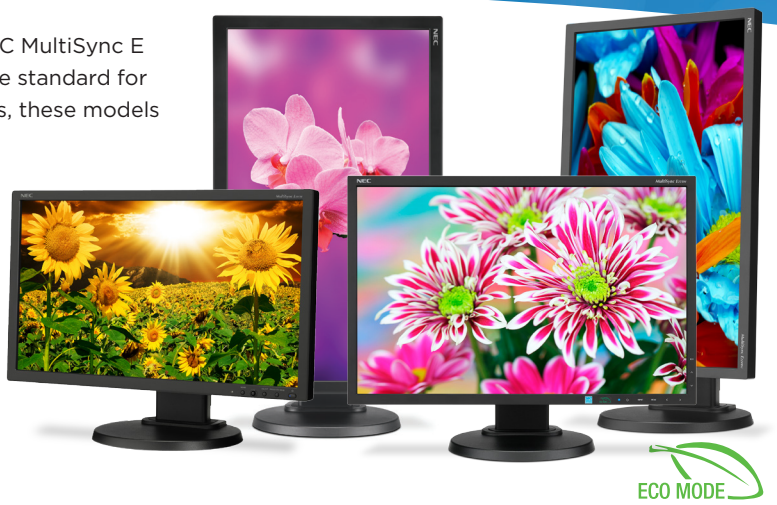
20" | 22" | 23"

# NEC MultiSync® E Series

*Eco-friendly desktop LCD monitors ideal for corporate environments*




**Elevate the eco-friendliness of your work environment**. The NEC MultiSync E Series, featuring LED-backlit, widescreen LCD displays, raises the standard for "green" computing. Compared to previous generation NEC LCDs, these models consume less power overall, radiate less heat, use less packaging, weigh less and utilize more recycled plastics in their production.

It's easy to be green. The MultiSync E Series is loaded with features that promote environmental consciousness. These displays consume less power by using energy-efficient LED backlighting, also utilize ECO Mode™, Intelligent Power Manager (IPM), an off timer and an ambient light sensor that automatically dims the screen to further reduce energy consumption. In addition, these models tout a built-in carbon footprint meter that tracks the conservation of green gas emissions and are free of hazardous materials such as mercury and arsenic.

A new perspective on productivity. These displays' wide-format screens (16:9 and 16:10 aspect ratios) provide roughly the same work area as two smaller-sized LCD screens, allowing you to work simultaneously in multiple/side-by-side application windows. This functionality, combined with contrast ratios of up to 25,000:1 (dynamic), full connectivity with a DisplayPort input and an ergonomic design, allows the MultiSync E Series to deliver the best in form and function to your desktop.

## Highlights

- **LED backlight technology** provides for industry-leading low power consumption and less hazardous materials
- **Four-way ergonomic stand** boasts pivot, tilt, swivel and height adjustment to maximize your viewing comfort
- **Displayport input** provides expanded connectivity with advanced technology
- **Ambient light sensor** minimizes power consumption by automatically adjusting the brightness to the optimal setting depending on ambient lighting, screen content or both
- **ECO Mode®** allows you to manually adjust the display's brightness to two preset settings, including ENERGY STAR®, saving more power and reducing your energy costs
- **Intelligent Power Manager (IPM) system and off timer** provide innovative, power-saving methods and reduce $CO_2$ emissions by shifting to a lower power consumption level or automatically powering down when the monitor is on but not in use
- **Carbon footprint meter** helps track and calculate the reduction of green gas emissions, while the resettable cost meter (via On Screen Display) indicates electricity cost savings based on currency settings
- **Dynamic Video Mode** enhances video and images with real-time optimization of brightness, color and contrast
- **Compact packaging** helps reduce paper usage, shipping costs and waste
- **EPEAT Silver compliance** ensures the displays reduce hazardous waste and electricity usage, resulting in lower energy costs and increased protection for the environment
- **ENERGY STAR 6.0 compliance** reduces electrical costs and lowers total cost of ownership (E223W & E224Wi)
- **NEC Display Solutions' quality and reliability** provide peace of mind with a 3-year limited parts and labor warranty (including backlight) and unrivaled customer service and technical support

## Specifications for MultiSync E201W/E223W/E224Wi/E231W

| MODEL | E201W | E223W | E224Wi | E231W |
|---|---|---|---|---|
| **DISPLAY** | | | | |
| Panel Technology | TN | | AH-IPS | TN |
| Backlight Type | W-LED | | | |
| Viewable Image Size | 20.1" | 22" | 21.5" | 23" |
| Aspect Ratio | 16:9 | 16:10 | 16:9 | |
| Native Resolution | 1600 x 900 | 1680 x 1050 | 1920 x 1080 | |
| Pixel Pitch | 0.28mm | 0.28mm | 0.25mm | 0.27mm |
| Pixels Per Inch | 96 @ native resolution | 90 @ native resolution | 102 @ native resolution | 96 @ native resolution |
| Brightness (typical) | 250 cd/m² | | | |
| Contrast Ratio (typical) | 1000:1 (25,000: dynamic) | | | |
| Viewing Angle (typical) | 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>5 | | 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10 | 170° Vert., 176° Hor. (85U/85D/88L/88R) @ CR>10 |
| Response Time (typical) | 5ms | 5ms | 6ms | 5ms |
| Displayable Colors | More than 16.7 million | | | |
| **Synchronization Range** | | | | |
| Horizontal (Analog/Digital) | 31.5-82.3 kHz | | 31.5-81.1 kHz | 31.5-83 kHz |
| Vertical | 56-75 Hz | 56-75 Hz | 56-76 Hz | 56-75 Hz |
| **Input Signal** | | | | |
| Video | Analog RGB 0.7 Vp-p/75 Ohms | | | |
| Sync | Separate Sync: TTL Level (Positive/Negative); Composite Sync: TTL Level (Positive/Negative); Composite Sync on Green: (0.3Vp-p negative 0.7Vp-p positive) | | | |
| Input Connectors | DisplayPort, DVI-D, VGA 15-pin D-sub | | | |
| **POWER CONSUMPTION** | | | | |
| On (typical) | 28W | 24W | 26W | 28W |
| Power Savings Mode (typical) | 0.34W | 0.35W | 0.4W | 0.34W |
| **PHYSICAL SPECIFICATIONS** | | | | |
| **Dimensions (WxHxD)** | | | | |
| Net (with stand) | 18.8 x 14.1-18.5 x 8.4 in. / 477 x 359.3-469.3 x 213.9mm | 19.8 x 15.1-19.4 x 8.4 in. / 503.5 x 383.3-493.3 x 213.9mm | 20 x 14.4-18.7 x 8.4 in. / 507.4 x 364.5-474.5 x 213.9mm | 21.7 x 15-19.4 x 8.4 in. / 551.2 x 381-492.8 x 213.4mm |
| Net (without stand) | 18.8 x 11.2 x 2.2 in. / 477 x 285.6 x 55mm | 19.8 x 13.0 x 2.4 in. / 503.5 x 329.7 x 60.5mm | 20 x 11.9 x 2.3 in. / 507.4 x 301.1 x 58.5mm | 21.7 x 13 x 2.8 in. / 551.2 x 330.2 x 71.1mm |
| **Weight** | | | | |
| Net (with stand) | 11.9 lbs. / 5.4 kg | 10.8 lbs. / 4.9 kg | 13.0 lbs. / 5.9 kg | 13.7 lbs. / 6.2 kg |
| Net (without stand) | 7.6 lbs. / 3.4 kg | 7.1 lbs. /3.2 kg | 8.6 lbs. / 3.9 kg | 9.3 lbs. / 4.2 kg |
| VESA Hole Configuration | 100 x 100mm | | | |
| **ENVIRONMENTAL CONDITIONS** | | | | |
| Operating Temperature | 41-95°F / 5-35°C | | | |
| Operating Humidity | 20 - 80% | | | |
| Operating Altitude | 6562 ft. / 2000m | | | |
| Storage Temperature | 14-140°F / -10-60°C | | | |
| Storage Humidity | 10-85% | | | |
| Storage Altitude | 40,000 ft. / 12,192m | | | |
| **ENVIRONMENTAL COMPLIANCE** | | | | |
| ENERGY STAR | 6.0 | | | |
| TCO | 5.0 | 6.0 | | 5.0 |
| EPEAT | Silver | | | |
| RoHS | Yes | | | |
| **LIMITED WARRANTY** | 3 years parts and labor, including backlight* | | | |
| **ADDITIONAL FEATURES** | Auto brightness with ambient light sensor (select models); ECO Mode; Carbon footprint meter; Resettable cost meter; Thin frame; Tilt; Swivel; Pivot; Height-adjustable stand; Carrying handle; Rapid Response; Ambix; XtraView; OSD* user controls; OSD Lock Out; NaViKey; NaViSet software; Hot key; Cable management; ControlSync™; Customize setting; NaViSet™ Administrator 2; VESA mount; HDMI-capable via DVI adapter; HDCP; DDC/CI; No Touch Auto Adjust; Plug and Play (VESA DDC 2B); VESA DPMS power management; Dynamic Video Mode; AccuColor color control; Digital smoothing; Digital controls; ISO 9241-307 Class I; Windows 7- and 8-certified | | | |
| **SHIPS WITH** | Setup sheet; User manual; Power cord; 15-pin D-sub cable; DVI-D cable | | | |

Ergonomic capabilities

Touch-sensitive OSD controls (select models)

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